

Applicant: LEAKE *ET AL.*  
Serial No.: To be assigned  
Filing Date: Filed herewith  
Preliminary Amendment  
September 30, 2005  
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**Amendments to the Specification:**

Please replace the paragraph on page 54 spanning lines 31-33 with the following amended paragraph:

The sense strand can further comprise[[s]] a cap on its 3' end. Preferably, the cap is an inverted deoxythymidine (dT) or two consecutive 2'-O-methyl modified bases at the end positions (nucleotides 18 and 19).

Please replace the paragraph on page 69 spanning lines 14-26 with the following amended paragraph:

The siRNA duplexes of certain embodiments of the eleventh embodiment of this invention include a phosphate moiety at the 5'-end of the antisense strand. This phosphate is introduced chemically as the final coupling to the antisense sequence. The required phosphoramidite derivative (*bis*(cyanoethyl)-N,N-diisopropylamino phosphoramidite) is synthesized as follows in brief: phosphorous trichloride is treated one equivalent of N,N-diisopropylamine in anhydrous tetrahydrofuran in the presence of excess triethylamine. Then, two equivalents of 3-hydroxypropionitrile are added and allowed to react completely. Finally, the product is purified by chromatography. Post-purification packaging of the phosphoramidite is carried out using the procedures described previously for the standard nucleoside phosphoramidites. Similarly, the incorporation of the phosphoramidite at the 5'-end of the antisense strand is accomplished by applying the same four-step cycle described previously for the standard nucleoside phosphoramidites.

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Please replace the paragraph on page 93, spanning lines 6-13, with the following amended paragraph:

In other embodiments of the present invention, any of the compositions can comprise a conjugate. The conjugate can be selected from the group consisting of amino acids, peptides, polypeptides, proteins, sugars, carbohydrates, lipids, polymers, nucleotides, polynucleotides, and combinations thereof. The conjugate can be cholesterol or PEG. The conjugate can further comprise a label, such as, for example, a fluorescent label. The fluorescent label can be selected from the group consisting of [[of]] TAMRA, BODIPY, Cy3, Cy5, fluorescein, and Dabsyl. Alternatively, the fluorescent label can be any fluorescent label known in the art.

Please replace Table 4, beginning on page 105 after line 8 and continuing to page 107, with the following amended Table 4:

Table 4: Constructs for 2'-Deoxy Modifications/fLUC		
Identifier	Sequence	SEQ. ID NO.
fLUC5-AS 3D19	uuuaugaggaucucududgdadtdt	27
fLUC5-AS 3D16	uuuaugaggaucucudcdudgadtdt	28
fLUC5-AS 3D13	uuuaugaggaucdudcdducugadtdt	29
fLUC5-AS 3D10	uuuaugaggdadudcucucugadtdt	30
fLUC5-AS 3D7	uuuaugdadgdgaucucucugadtdt	31
fLUC5-AS 3D4	uuudadudgagggaucucucugadtdt	32
fLUC5-AS 3D1	dududuauaugaggaucucucugadtdt	33
fLUC5-AS 2D19	uuuaugaggaucucudgdadtdt	34
fLUC5-AS 2D17	uuuaugaggaucucududgadtdt	35
fLUC5-AS 2D15	uuuaugaggaucududcugadtdt	36
fLUC5-AS 2D13	uuuaugaggaucdudcucugadtdt	37
fLUC5-AS 2D11	uuuaugaggadudcucucugadtdt	38
fLUC5-AS 2D9	uuuaugagdgdaucucucugadtdt	39
fLUC5-AS 2D7	uuuaugdadggauaucucugadtdt	40
fLUC5-AS 2D5	uuuadudgagggaucucugadtdt	41
fLUC5-AS 2D3	uuuduauaugaggaucucugadtdt	42
fLUC5-AS 2D1	duduuaugaggaucucugadtdt	43
fLUC5-AS 1D19	uuuaugaggaucucucugdadtdt	44
fLUC5-AS 1D18	uuuaugaggaucucudgadtdt	45
fLUC5-AS 1D17	uuuaugaggaucucudugadtdt	46
fLUC5-AS 1D16	uuuaugaggaucucudcugadtdt	47
fLUC5-AS 1D15	uuuaugaggaucuducugadtdt [[2]]	48
fLUC5-AS 1D14	uuuaugaggaucudcucugadtdt	[[48]] <u>49</u>
fLUC5-AS 1D13	uuuaugaggaucducucugadtdt	50
fLUC5-AS 1D12	uuuaugaggaudcucucugadtdt	51
fLUC5-AS 1D11	uuuaugaggaducucucugadtdt	52

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fLUC5-AS 1D10	uuuaugaggdaucucucugadtdt	53
fLUC5-AS 1D9	uuuaugagdgaucucucugadtdt	54
fLUC5-AS 1D8	uuuaugadggaucucucugadtdt	55
fLUC5-AS 1D7	uuuaugdagggaucucucugadtdt	56
fLUC5-AS 1D6	uuuaudgaggaucucucugadtdt	57
fLUC5-AS 1D5	uuuadugaggaucucucugadtdt	58
fLUC5-AS 1D4	uuudaugaggaucucucugadtdt	59
fLUC5-AS 1D3	uuduaugaggaucucucugadtdt	60
fLUC5-AS 1D2	uduuauagaggaucucucugadtdt	61
fLUC5-AS 1D1	duuuaugaggaucucucugadtdt	62
fLUC5-S 3D19	ucagagagagauccucaudadadadtdt	63
fLUC5-S 3D16	ucagagagagauccucadudadaadtdt	64
fLUC5-S 3D13	ucagagagagauccdudcdauaaaadtdt	65
fLUC5-S 3D10	ucagagagagadudcdcuauaaaadtdt	66
fLUC5-S 3D7	ucagagdadgdauccucauaaaadtdt	67
fLUC5-S 3D4	ucadgdadgagagauccucauaaaadtdt	68
fLUC5-S 3D1	dudcdagagagagauccucauaaaadtdt	69
fLUC5-S 2D19	ucagagagagauccucauadadadtdt	70
fLUC5-S 2D17	ucagagagagauccucaudadaadtdt	71
fLUC5-S 2D15	ucagagagagauccucdaduaaaadtdt	72
fLUC5-S 2D13	ucagagagagauccdudcauaaaadtdt	73
fLUC5-S 2D11	ucagagagagaudcdcuauaaaadtdt	74
fLUC5-S 2D9	ucagagagagdaduccucauaaaadtdt	75
fLUC5-S 2D7	ucagagdadgagagauccucauaaaadtdt	76
fLUC5-S 2D5	ucagdadgagagauccucauaaaadtdt	77
fLUC5-S 2D3	ucdadgagagagauccucauaaaadtdt	78
fLUC5-S 2D1	dudcagagagagauccucauaaaadtdt	79
fLUC5-S 1D19	ucagagagagauccucauaadadtdt	80
fLUC5-S 1D18	ucagagagagauccucauadaadtdt	81
fLUC5-S 1D17	ucagagagagauccucaudaaadtdt	82
fLUC5-S 1D16	ucagagagagauccucaduaaaadtdt	83

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fLUC5-S 1D15	ucagagagauccucdaauaaadtdt	84
fLUC5-S 1D14	ucagagagauccudcauaaadtdt	85
fLUC5-S 1D13	ucagagagauccducauaaadtdt	86
fLUC5-S 1D12	ucagagagaucdcucauaaadtdt	87
fLUC5-S 1D11	ucagagagaudccucauaaadtdt	88
fLUC5-S 1D10	ucagagagaduccucauaaadtdt	89
fLUC5-S 1D9	ucagagagdauccucauaaadtdt	90
fLUC5-S 1D8	ucagagagadgauccucauaaadtdt	91
fLUC5-S 1D7	ucagagdagauccucauaaadtdt	92
fLUC5-S 1D6	ucagadgagauccucauaaadtdt	93
fLUC5-S 1D5	ucagdagagauccucauaaadtdt	94
fLUC5-S 1D4	ucadgagagagauccucauaaadtdt	95
fLUC5-S 1D3	ucdagagagagauccucauaaadtdt	96
fLUC5-S 1D2	udcagagagagauccucauaaadtdt	97
fLUC5-S 1D1	ducagagagagauccucauaaadtdt	98

A "d" indicates that the nucleotide following the "d" is deoxy at the 2' position.